



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

SYUKUDA et al.

Group Art Unit: 123

Serial No. 408,563

Examiner: Hazel

Filed : August 16, 1982

RECEIVED

For : METHOD FOR PRODUCING PERTUSSIS TOXOID

OCT 19 1983

AMENDMENT UNDER 37 CFR 1.115

Honorable Commissioner of
Patents and Trademarks
Washington, D. C. 20231

GROUP 120

Sir:

This amendment is in response to the Office Action Dated April 15, 1983, a 3 month extension of time having been obtained under 37 CFR 1.136 by virtue of the attached request and appropriate fee. If for any reason, either the appropriate fee is not attached or it is insufficient, please charge the proper fee to deposit account No. 23-0783.

Applicants respectfully request above-identified application be amended as follows:

IN THE CLAIMS

Cancel claims 1 and 6 without prejudice to the remaining claims.

Claims 2, 5, 7-9, line one, change "1" to --10--.

Add the following claims:

--10. A method of producing a pertussis toxoid, which comprises removing endotoxin from a culture supernatant of a *Bordetella pertussis* phase I strain or a concentrate thereof, flocculating pertussis exotoxin in the resultant fluid by permitting formaldehyde to act upon the fluid in the substantial absence of basic amino acid and dispersing the flocculent mass in the resulting suspension by ultrasonication.--